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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/788,463	03/01/2004	Suzushi Kimura	43890-664	7374
7590 03/14/2006		EXAMINER		
McDermott, Will & Emery 600 13th Street, N.W.			CHANG, RICK KILTAE	
Washington, DC 20005-3096			ART UNIT	PAPER NUMBER
			3729	
			DATE MAIL ED. 02/14/0006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/788,463	KIMURA ET AL.				
		Examiner	Art Unit				
		Rick K. Chang	3729				
Pariod fo	The MAILING DATE of this communication app	ears on the cover sheet wi	th the correspondence address				
Period fo	• •	/ IO OFT TO EVOIDE AND	ONTHON OF THEFTY (OO) PAYO				
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANS INSTRUCTION OF THE MAILING DANS IN THE MAY BE AVAILABLE OF THE MONTHS FROM THE MAILING DANS IN THE MONTHS FROM THE MAILING DANS IN THE MONTHS FROM THE MONTHS FROM THE MONTHS FROM THE MONTHS AND THE MON	ATE OF THIS COMMUNIC 36(a). In no event, however, may a re vill apply and will expire SIX (6) MON 1, cause the application to become AB.	CATION. eply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status							
	Responsive to communication(s) filed on <u>01 M</u>	arch 2004.					
2a) <u></u>	This action is FINAL . 2b)⊠ This action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims						
4)🖂	4)⊠ Claim(s) <u>13-15</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)□	5) Claim(s) is/are allowed.						
6)⊠	☑ Claim(s) <u>13-15</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8)□	Claim(s) are subject to restriction and/or	r election requirement.					
Applicati	on Papers						
9)⊠	The specification is objected to by the Examine	r.					
	The drawing(s) filed on is/are: a) acce		by the Examiner.				
	Applicant may not request that any objection to the		•				
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority ι	ınder 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
-	a)⊠ All b)□ Some * c)□ None of:						
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
	application from the International Bureau (PCT Rule 17.2(a)).						
* 5	See the attached detailed Office action for a list	of the certified copies not r	eceived.				
Attachmen	t(s)						
1) 🛛 Notic	e of References Cited (PTO-892)	4) Interview S	ummary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.							
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date of record. 5) Notice of Informal Patent Application (PTO-152) 6) Other:							

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DETAILED ACTION

Specification

1. Applicant is reminded of the proper content of an abstract of the disclosure.

A patent abstract is a concise statement of the technical disclosure of the patent and should include that which is new in the art to which the invention pertains. If the patent is of a basic nature, the entire technical disclosure may be new in the art, and the abstract should be directed to the entire disclosure. If the patent is in the nature of an improvement in an old apparatus, process, product, or composition, the abstract should include the technical disclosure of the improvement. In certain patents, particularly those for compounds and compositions, wherein the process for making and/or the use thereof are not obvious, the abstract should set forth a process for making and/or use thereof. If the new technical disclosure involves modifications or alternatives, the abstract should mention by way of example the preferred modification or alternative.

The abstract should not refer to purported merits or speculative applications of the invention and should not compare the invention with the prior art.

Where applicable, the abstract should include the following:

- (1) if a machine or apparatus, its organization and operation;
- (2) if an article, its method of making;
- (3) if a chemical compound, its identity and use;
- (4) if a mixture, its ingredients;
- (5) if a process, the steps.

Extensive mechanical and design details of apparatus should not be given.

2. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

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3. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

4. The data provided by the applicants regarding PCT is not consistent with PTO records.

Claim Objections

5. Claim 15 is objected to as being a substantial duplicate of claim 14. Claim 14 and claim 14 are essentially duplicates of one another or else are so close in content that they both cover the same thing, despite a slight difference in wording. It is improper to have two claims which contain the same limitations, in the same application as one claim would be a substantial duplicate of the other claim.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 13-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kryzaniwsky (US005280192A) in view of Bross et al (US005259110A).

Kryzaniwsky discloses a substrate made of resin (11); 30 and 31 are hones; 5-10 are chips; 12 circuit wirings; 150 are joined by compression or conductive polymers; it is inherent that holes are formed to a specific rule and a specific position according to a matrix, a chip component of a specific value is accommodated to put in the hole to compose a desired circuit.

Kryzaniwsky fails to disclose heating to join 150.

Bross discloses in Fig. 3 thermo-compression to stack the components.

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It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Kryzaniwsky by heating to join one substrate to another substrate, as taught by Bross, for the purpose of forming multilayer microelectronics.

Conclusion

- 8. Please provide reference numerals (either in parentheses next to the claimed limitation or in a table format with one column listing the claimed limitation and another column listing corresponding reference numerals in the remark section of the response to the Office Action) to all the claimed limitations as well as support in the disclosure for better clarity (optional). Applicants are duly reminded that a full and proper response to this Office Action that includes any amendment to the claims and specification of the application as originally filed requires that the applicant point out the support for any amendment made to the disclosure, including the claims. See 37 CFR 1.111 and MPEP 2163.06.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rick K. Chang whose telephone number is (571) 272-4564. The examiner can normally be reached on 5:30 AM to 1:30 PM, Monday through Thursday.

The fax phone numbers for the organization where this application or proceeding is assigned are (571) 273-8300 for regular communications and (571) 273-8300 for After Final communications.

RICHARD CHANG MARY EXAMINER Application/Control Number: 10/788,463

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RC March 7, 2006